	Application No.	Applicant(s)
ALC: PAU 1994	10/645,355	KARLIN ET AL.
Notice of Allowability	Examiner	Art Unit
	James S. Bergin	3641
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment of 6/15/2</u>	<u>2005</u> .	
2. The allowed claim(s) is/are <u>1-10</u> .		
 3.		
Certified copies of the priority documents have	been received in Application No	
Copies of the certified copies of the priority does	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s)	5 Nation of Informal D	one of Annalisation (DTO 450)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		atent Application (PTO-152)
2. Notice of Draitperson's Patent Drawing Review (P10-946)	6. ☐ Interview Summary Paper No./Mail Dat	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>11/17/2003</u> 	8), 7. Examiner's Amenda	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
		16
	EUPERVISO	TALL J. CARDUZ NY PATENT EXAMINER

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Application/Control Number: 10/645,355 Page 2

Art Unit: 3641

REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: the known prior art does not disclose or fairly teach an inflator comprising a hybrid multi-stage gas generator, the gas generator comprising: first and second pyrotechnic units; a chamber accommodating compressed gas; a gas outlet aperture located in a flow path from the chamber containing the compressed gas to the exterior of the inflator, the gas outlet aperture having an initial cross-section to define an initial gas flow area, the gas outlet aperture incorporating a deformable part configured to deform in response to a predetermined gas pressure within the chamber so as to increase the cross-section of the gas outlet aperture and thereby increase the gas flow area of the gas outlet. There is insufficient motivation to modify O'Loughlin et al.'s (US 5,794,973) rupture disk 102 and aperture 60 arrangement with the flap/ tab elements 5 of Schnowitz et al. (US 6,467,805), absent the use of impermissible hindsight reconstruction. O'Loughlin et al. dual state hybrid inflator works perfectly well without making any modification to the rupture disk 102 and aperture 60 arrangement. Similarly, the Dolling et al. (US 6,786,507) reference cannot be properly used to modify O'Loughlin et al. to arrive at the applicants' invention because Dolling et al. discloses a rupture membrane arrangement that does not define a gas outlet aperture with an initial cross-section defining an initial gas flow area before the membrane 22 ruptures.
- 2. This statement is not intended to necessarily state all the reasons for allowance or all the details why the claims are allowed and has not been written to specifically or impliedly state that all the reasons for allowance are set forth (MPEP 1302.14).

Application/Control Number: 10/645,355

Page 3

Art Unit: 3641

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Bergin whose telephone number is 571-272-6872. The examiner can normally be reached on Monday - Wednesday and Friday, 8.30 - 5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

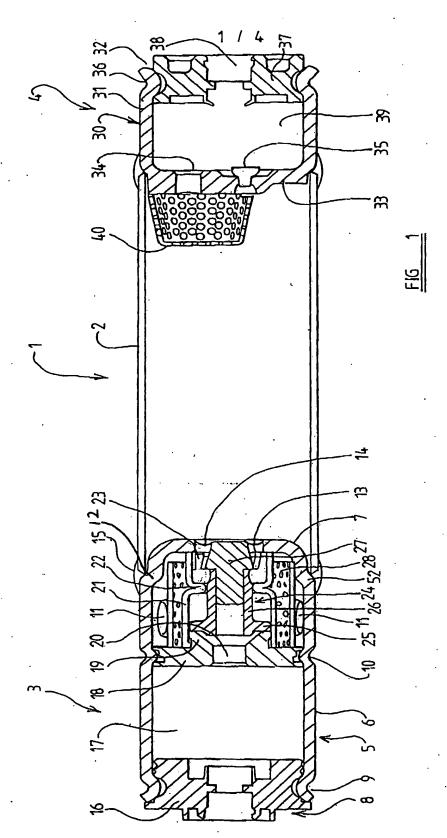
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James S. Bergin

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REPLACEMENT SHEET Title of Invention: AN INFLATOR Inventor: Mats Karlin, et al. Serial No.: 10/645,355 Docket No.: 3390.2.16



REPLACEMENT SHEET Title of Invention: AN INFLATOR Inventor: Mats Karlin, et al. Serial No.: 10/645,355
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